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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attomey Docket No. LEW 17,186-1

First Inventor Powell

Method for Growing Low Defect Single

Crystal Heteroepitaxial Films

Express Mail Label No. ET 116643955US

| APPLICA | TION ELEMENTS | ASSISTANT Commissioner for Patents | | | | | | | |
|--|--|--|-----------------------------|--|--|--|--|--|--|
| See MPEP chapter 600 cond | cerning utility patent application contents | ADDRESS TO: Box Patent Application Washington, DC 20231 | | | | | | | |
| Fee Transmittal Fe | orm (e.g., PTO/SB/17) | 7. CD-ROM or CD-R in duplicate, large table or | | | | | | | |
| Applicant claims s | | Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission | Computer Program (Appendix) | | | | | | |
| See 37 CFR 1.27. | | (if applicable, all necessary) | | | | | | | |
| 3. Specification (preferred arrangement) | | a. Computer Readable Form (CRF) | | | | | | | |
| - Descriptive title - Cross Referenc | of the invention e to Related Applications | b. Specification Sequence Listing on: | | | | | | | |
| | arding Fed sponsored R & D | i. CD-ROM or CD-R (2 copies); or | | | | | | | |
| | quence listing, a table, rogram listing appendix | ii. ☐ paper | | | | | | | |
| - Background of | the Invention | c Statements verifying identity of above copies | | | | | | | |
| - Brief Summary - Brief Descriptio | or the invention n of the Drawings (<i>if filed</i>) | ACCOMPANYING APPLICATION PARTS | | | | | | | |
| - Detailed Descri | ption | 9. X Assignment Papers (cover sheet & document(s)) |) | | | | | | |
| - Claim(s) - Abstract of the | Disclosure | 10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney | | | | | | | |
| 4. X Drawing(s) (35 U | .S.C. 113) [Total Sheets 38 | 11. English Translation Document (if applicable) | | | | | | | |
| 5. Oath or Declaration | [Total Pages 2 | 12. X Information Disclosure Statement (IDS)/PTO-1449 X Copies of II Citations | DS | | | | | | |
| a. X Newly execu | ited (original or copy) | 13. Preliminary Amendment | | | | | | | |
| Copy from a | prior application (37 CFR 1.63 (d)) tion/divisional with Box 18 completed) | 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) | | | | | | | |
| | ION OF INVENTOR(S) | 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) | | | | | | | |
| | tement attached deleting inventor(s) he prior application, see 37 CFR | 16. V Nonpublication Request under 35 U.S.C. 122 | | | | | | | |
| 1.63(d)(2) | and 1.33(b). | (b)(2)(B)(i). Applicant must attach form PTO/SB/35 | | | | | | | |
| 6. Application Data | Sheet. See 37 CFR 1.76 | or its equivalent. | or its equivalent. | | | | | | |
| 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, | | | | | | | | | |
| or in an Application Data Sheet under 37 CFR 1.76: | | | | | | | | | |
| Continuation Divisional Continuation-in-part (CIP) of prior application No.:/ | | | | | | | | | |
| Prior application information: Examiner Group Art Unit: | | | | | | | | | |
| For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. | | | | | | | | | |
| The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. | | | | | | | | | |
| 19. CORRESPONDENCE ADDRESS | | | | | | | | | |
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| Country | To | lephone Fax | | | | | | | |
| Name (Print/Type) | Kent N. Stone | Registration No. (Attorney/Agent) 31,883 | $\overline{\ \ }$ | | | | | | |
| Signature | Yat VI | tow Date 9/25/200 | $\overline{}$ | | | | | | |

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| SUBTOTAL (1) (\$) 710 | | 1,510 | | | | | | e proceeding | <u> </u> | 2 | 45 or |
| 2. EXTRA CLAIM FEES | 140 | | 240 | 55 | | | unavoidable | | | $\mathcal{C}_{\mathcal{A}}$ | on this 2001. |
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| Large Entity Small Entity Fee Fee Fee Fee Description | 126 | 180 | 126 | 180 | | | | closure Stmt | |][| |
| Code (\$) Code (\$) | 681 | 40 | 581 | 40 | Recordin | ng each p | atent assign: | ment per | 40 | | |
| 03 18 203 9 Claims in excess of 20 | | | | | | | mber of pro | | 40 | -1 | |
| 102 80 202 40 Independent claims in excess of 3 | 146 | 710 | 246 | 355 | Filing a s | submissio § 1.129(| n after final r al) | ejection | | | |
| 104 270 204 135 Multiple dependent claim, if not paid | 149 | 710 | 249 | 355 | For each | addition | al invention t | o be | | 1 | |
| 109 80 209 40 ** Reissue independent claims over original patent | | | | | examine | d (37 CF | R § 1.129(b) |) | | | |
| 110 18 210 9 ** Reissue claims in excess of 20 | 179 | 710 | 279 | 355 | Request | for Conti | nued Examin | ation (RCE) | | 4 | |
| and over original patent 169 90 | | | 169 | 900 | | | lited examin | ation | | | |
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| *or number previously paid, if greater, For Reissues, see above | Red | uced by | Basic | Filing | Fee Paid | S | UBTOTAL | . (3) (\$) | 40 | | |
| SUBMITTED BY Complete (if applicable) | | | | | | | | | | | |
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| Name (Printl Type) Kent N. Stone | | Attomey | (Aa* | | 31.88 | ર'ર ∎ | i diopilolia | (216) | <u>433-88</u> | L 14 | |

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REQUEST AND CERTIFICATION UNDER 35 U.S.C. 122(b)(2)(B)(i)

| First Named Inventor | | | | | | | |
|----------------------|---|--------------|--|--|--|--|--|
| Title | Method for Growing Low-Defect Single Crystal Heteroepitaxial Films | | | | | | |
| Atty Docket Number | | LEW 17,186-1 | | | | | |

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

September 25, 2001

Kent N. Stone

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents. Washington, DC 20231

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Kent N. Stone

NASA Case No. LEW 17, 186-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Powell, et al

Serial No.: (Not yet assigned)

Art Unit: (not yet assigned)

Filed: (herewith)

Examiner: (not yet assigned)

Title: Method for Growing Low-Defect Single Crystal Heteroepitaxial Films

CERTIFICATE OF MAILING UNDER 37 CFR 1.10(a)

I certify that the attached correspondence consisting of:

- Application (80 pages, including 52 claims)
- Formal Drawings (38 sheets)
- NASA Form 1538- Declaration, Power of Attorney, and Petition
- PTO SB/05- Utility Patent Application Transmittal
- PTO SB/17- Fee Transmittal
- PTO SB/35- Non Publication Request
- Assignment of J. Anthony Powell and Philip G. Neudeck with 2 Recordation Forms
- Information Disclosure Statement, with PTO 1449 and prior art patents
- Mailing Receipt Card

is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" under Mailing Label Number <u>ET116643955US</u> in an envelope addressed to the Assistant Commissioner for Patents, Box: New Application, Washington D.C. 20231, on <u>Q5 September</u>, 2001.

Kent N. Stone

Attorney of Record

Registration No. 31,883